

C L A I M S

1. A process for coating bodies comprising

producing an upward spray of coating fluid by means of a two-fluid nozzle as defined herein;

5 before contacting the bodies with said spray, providing the bodies with a spinning movement by a central impact of gas jets directed upward to intersect the centerline of said spray;

10 guiding the spinning bodies by said gas jets towards a central position over the two-fluid nozzle, thereby increasing the number of suspended bodies contacting the spray;

15 providing atomization gas to the two-fluid nozzle in an amount less than the one which after moderation by means of muffling gas would scatter the bodies in the spray zone;

pneumatically muffling the atomization gas just above the nozzle to reduce the body scattering effect thereof.

20 2. A process according to claim 1, wherein the muffling of the atomizing gas is accomplished by blowing in muffling gas encircling the nozzle and partially tangential in relation thereto to produce a swirling upward flow encircling the nozzle and influencing the
25 atomizing gas leaving the nozzle, thereby decreasing the upward body lifting and scattering effect thereof.

3. A process according to claim 2, wherein said muffling gas is provided through grooves connected to

a source of gas also feeding said gas jets impacting
acentrally on the bodies.

4. A process according to claim 2, wherein the
muffling gas is provided through a mantel surrounding
5 the two-fluid nozzle thereby forming a three-fluid
nozzle.

5. A process according to claim 1, wherein each of
the bodies being coated has a maximum dimension of from
2 to 50 mm, preferably from 3 to 25 mm.

10 6. A process according to claim 1, wherein the
number of bodies being coated simultaneously is less
than 500 per nozzle.

7. A process according to claim 1, wherein the gas
jets have a velocity of 80-180 m/sec.

15 8. A process according to claim 1, wherein the gas
jets have a velocity of 100-150 m/sec.